

Amendment to 10/614258 dated 29 November 2004

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Amendments to the Specification

Please amend paragraph [0019] of this application, which spans pages 8 and 9, to read as follows:

[0019] In drawings which illustrate various non limiting embodiments of the invention:

Figure 1A is a schematic view of a typical classic rotary drilling method apparatus, with a surface acoustic pulse generator (SAP generator) pursuant to one embodiment of the invention;

Figure 1B is an enlarged schematic diagram of the SAP generator of Figure 1A;

Figure 2A is a schematic view of a typical classic rotary drilling apparatus, with an SAP generator pursuant to an alternative embodiment of the invention;

Figure 2B is an enlarged schematic diagram of the SAP generator of Figure 2A;

Figure 3A is a schematic view of a typical classic rotary drilling method apparatus, with an SAP generator pursuant to a further alternative embodiment of the invention;

Figure 3B is an enlarged schematic diagram of the SAP generator of Figure 3A;

Figure 4 is a schematic view of a typical classic rotary drilling method apparatus equipped with an SAP generator pursuant to a further alternative embodiment of the invention;

Figure 5A is a schematic view of the SAP generator of Figure 4 and a schematic view of a preferred interrupter valve means pursuant to the invention;

Figure 5B is an enlarged schematic diagram of the preferred interrupter valve means of Figure 5A;

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Figure 5C is a detailed schematic diagram of the preferred interrupter valve means of Figure 5A;

FIG 6 is a schematic view of drilling apparatus including an acoustic pulse generator and a multiple piston telescopic tool located in a drill string above a drill bit;

FIG 7 is a longitudinal sectional view of the down hole telescopic tool of Figure 6 shown in its "closed" position;

FIG 8 is a longitudinal sectional view of the down hole telescopic tool of Figure 7 shown in its "open" position;

FIG 9 is a cross sectional view through a splined part of the telescopic tool of Figure 8;

FIG 10 is a schematic view of a drilling apparatus including a surface acoustic pulse generator and a multiple piston telescopic (MPT) tool in the drill string above one or a few drill collars;

FIG 11 is a longitudinal sectional view of the MPT tool in a first position wherein the weight of the portion of the drill string below the tool is supported by a set of springs; and

FIG 12 is a longitudinal sectional view of the MPT tool of Figure 11 in a second position which occurs when a pressure pulse lifts the portion of the drill string below the MPT tool; and

FIG 13 is a schematic view of a tool which may be used to impart vibration to a drill bit.